



## Add Open-Data Feature-Layer to Web Map with Vermont Open Geodata Portal and ArcGIS Online

Written on 04/20/2018

### Goal

Add a feature layer from Vermont Open Geodata Portal to an ArcGIS Online web-map.



This document only exposes a small subset of capabilities of the Vermont Open Geodata Portal, feature layers, and web maps. Multiple valid step-sequences exist for using these technologies.

### What You Need

- Web address (URL) of Vermont Open Geodata Portal, which is [geodata.vermont.gov](http://geodata.vermont.gov).
- Know how to identify a **feature layer** and its **REST-endpoint URL** in Vermont Open Geodata Portal.  
If an item in portal-search results is noted as a **Spatial Dataset**, it is a **feature layer** resource. A **feature layer** is a vector-data resource that is accessible via a type of URL called a **REST-endpoint URL** (**REST** is a type of web protocol).

1 - 10 of 272 results

Relevance

[VT Boundaries - town polygons](#)

Shared by Opendata\_VCGI

([Link to Metadata](#)) The BNDHASH dataset depicts Vermont villages, towns, counties, Regional Planning Commissions (RPC), and LEPC (Local Emergency Planning Committee) boundaries. It is a composite of generally 'best available' boundaries from various data sources (refer to ARC\_SRC and SRC\_NOTES attributes). However, this

Custom License 11/1/2016 **Spatial Dataset** 255 Rows

The REST-endpoint URL of a feature layer can be obtained from the layer's item-details page. Look for the **Data Source** link—it is the feature layer's REST-endpoint URL. It is located under **About**.

Favorite Download APIs

## About

VCGI Open Data

Shared By: Opendata\_VCGI

**Data Source: [maps.vcgi.vermont.gov](https://maps.vcgi.vermont.gov)**

[View Metadata](#)

[Create Webmap](#)

[Create a Story Map](#)



The actual URL might be longer than the link text that is displayed. In this example, [maps.vcgi.vermont.gov](https://maps.vcgi.vermont.gov) is displayed, while the linked REST-endpoint URL is:

[https://maps.vcgi.vermont.gov/arcgis/rest/services/EGC\\_services/OPENDATA\\_VCGI\\_BOUNDARIES\\_SP\\_NOCACHE\\_v1/MapServer/39](https://maps.vcgi.vermont.gov/arcgis/rest/services/EGC_services/OPENDATA_VCGI_BOUNDARIES_SP_NOCACHE_v1/MapServer/39)



A feature layer's REST-endpoint URL ends with a number—that number is the layer's unique ID. For example: <https://...../MapServer/39>

Unlike many other layer types, a feature layer's out-of-the box symbology and other layer properties can be changed in a web map.

- Optional: ArcGIS Online account. An ArcGIS Online account can be used to save a web map, including its feature layers and feature-layer properties.

## Steps

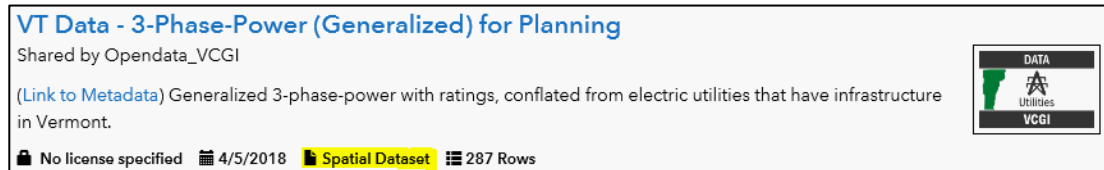
### 1. Search Vermont Open Geodata Portal and identify a feature-layer resource

Search the Vermont Open Geodata portal with a subject of interest. For example:

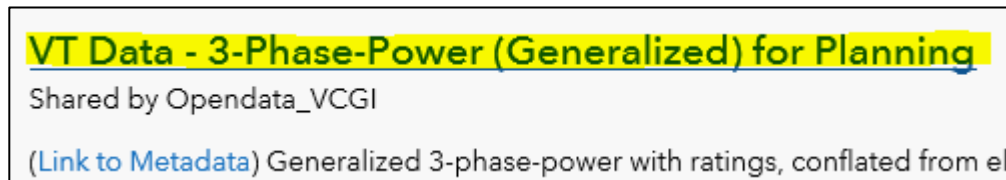


### 2. Identify a feature-layer resource (AKA Spatial Dataset) of interest in search results

Feature-layer resources are listed with a **Spatial Dataset** notation. For example:

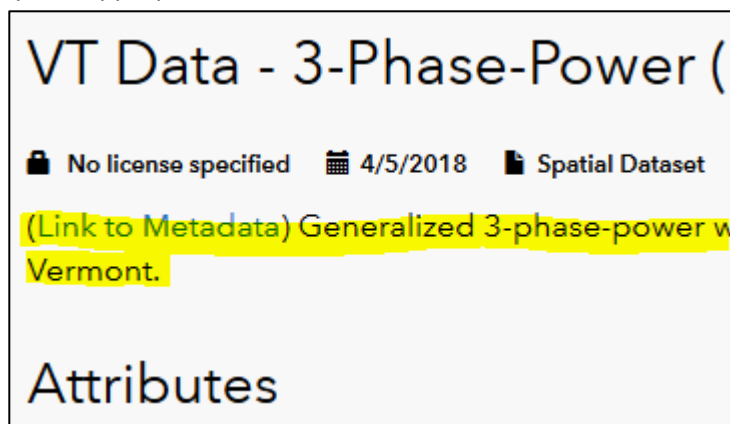


### 3. Click the feature-layer's title to open its details page



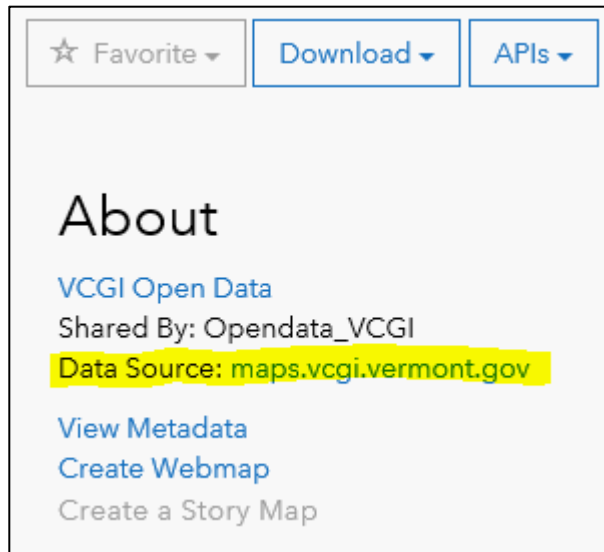
### 4. Read the feature-layer's description/metadata

Information on the feature-layer's details page is often helpful, as it can help with determining suitability and appropriate use.



## 5. Obtain feature layer's REST-endpoint URL (Data Source link)

Find the **Data Source** link on the details page—it is the feature layer's REST-endpoint URL. It is located under **About**.



Copy the link by

**EITHER**

right-clicking the link to copy link.

**OR**

left-clicking the link, going to the feature layer's REST-endpoint page, and copying the link from browser's web-address bar. For example:



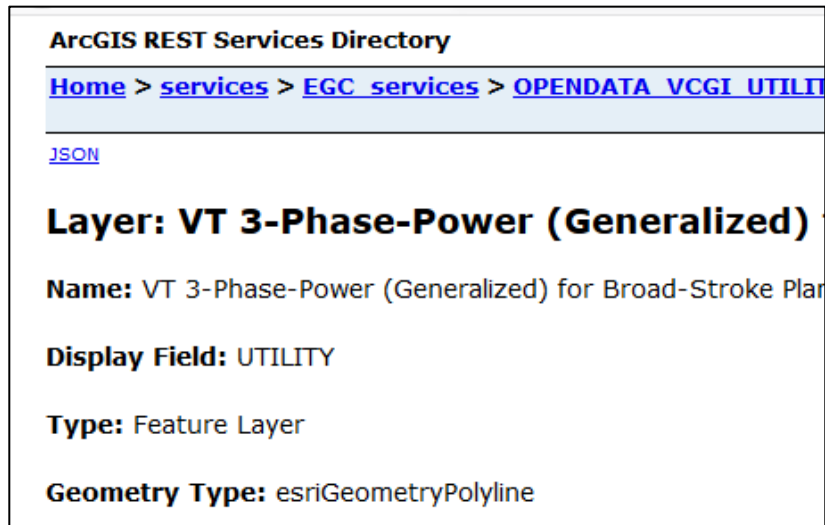
## 6. Start a new web map



If using an **Edge** browser, adding a feature layer to a web map is sometimes problematic. Start creating your web map with a different browser to prevent unexpected problems with adding layers.

If the REST-endpoint URL begins with **https**, go to <https://arcgis.com>.

Otherwise, if the REST-endpoint URL begins with **http**, paste the URL into a new browser tab and change **http** to **https** to see if the URL is available via **https**. If the result looks similar to this, the URL is available via **https**—copy to use the **https** URL.

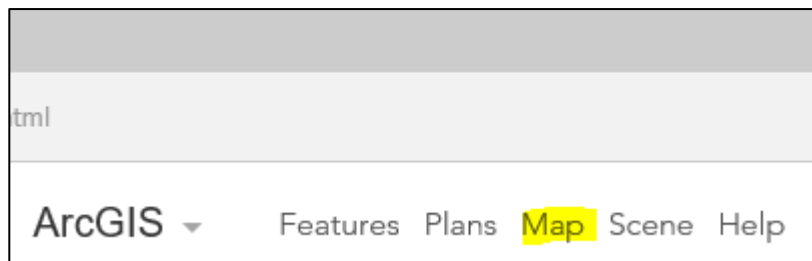


If the REST-endpoint URL isn't available via **https**, copy it with **https** changed back to **http** and go to <http://arcgis.com>.

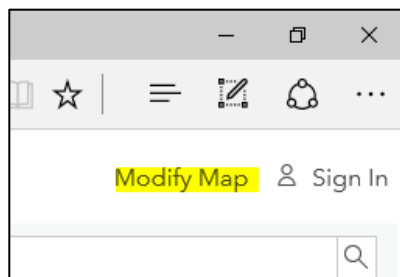


Awareness of **http** and **https** is important. Mixing **http** and **https** resources in a web map—and in non-mapping web-pages—can be problematic and even a security vulnerability. Mixing **http** and **https** content is called **mixed content**. For more information on **mixed content** in web maps, go [here](#).

### Map

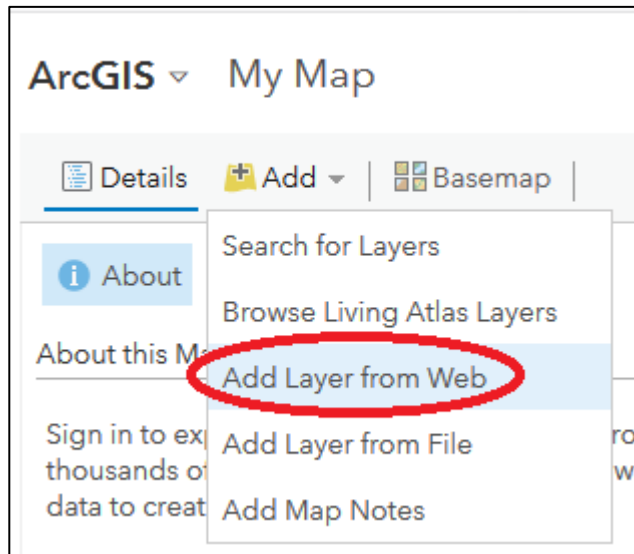


A new web map opens. Click **Modify Map**.



## 7. Add feature layer to web map

Add | Add Layer from Web



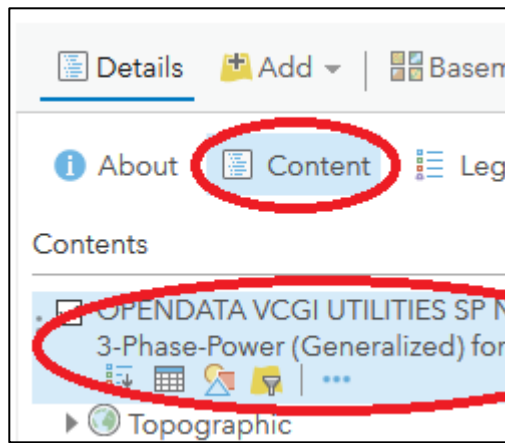
Paste the feature layer's REST-endpoint URL into **Add Layer from Web** dialog. For example:


A screenshot of the 'Add Layer from Web' dialog box. The title is 'Add Layer from Web'. Below the title is the question 'What type of data are you referencing?'. A dropdown menu shows 'An ArcGIS Server Web Service'. Below that, the 'URL:' field is filled with the text '3/EGC\_services/OPENDATA\_VCGI\_UTILITIES\_SP\_NOCACHE\_v1/MapServer/79'. There is a checkbox labeled 'Use as Basemap' which is unchecked. At the bottom, there are three buttons: 'BROWSE FOR MORE LAYERS', 'ADD LAYER', and 'CANCEL'.

Click **ADD LAYER**. The feature layer is added to the web map.

## 8. Change feature layer's symbology and other properties as needed

If the feature layer's out-of-the-box symbology or other properties need changes to suit your needs, change its properties in the left panel under **Content**—hover over the layer to get started.



To change symbology, click . A dialog opens in the left panel and presents symbology options. Here is an example of symbolizing a feature layer by unique values of its RATING field.

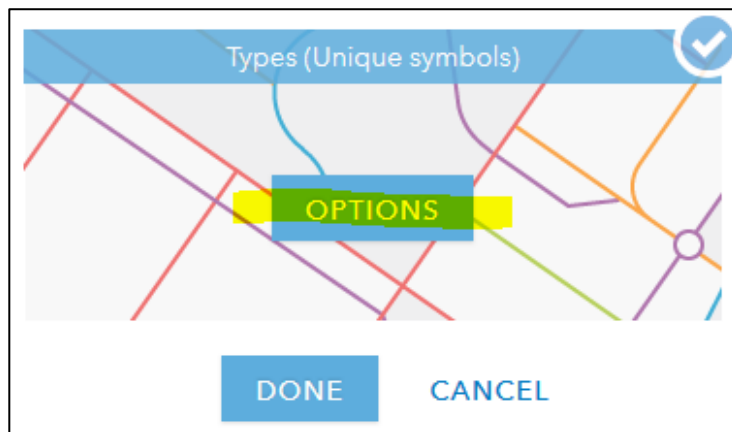
1

Choose an attribute to show

+ Add attribute

2



Select a drawing style




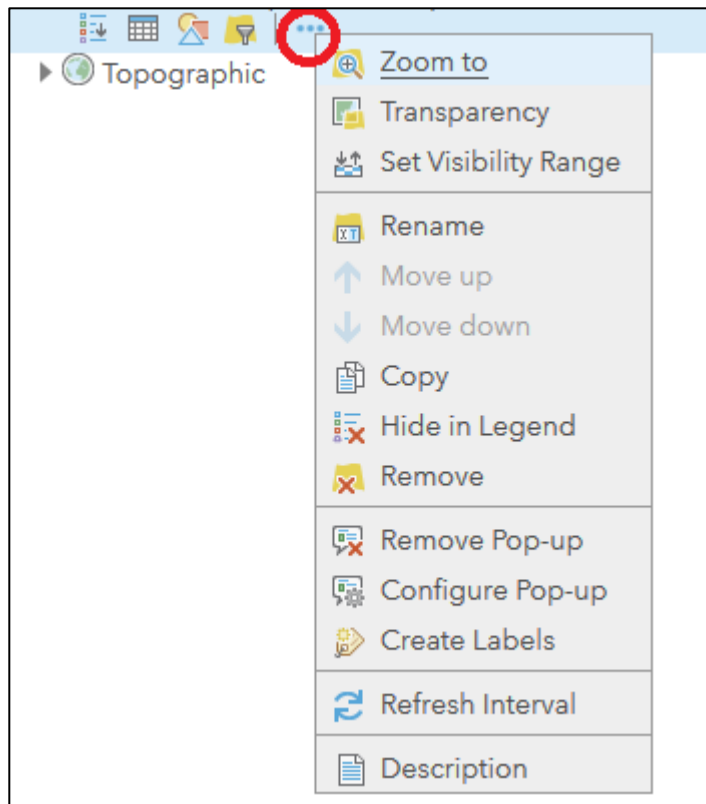
**RATING**

Click to edit symbol or label.

	LABEL	COUNT	
⋮	Good	212	
⋮	Fair	9	
⋮	Poor	30	
⋮	Not Rated	36	
<input type="checkbox"/>	Other	0	

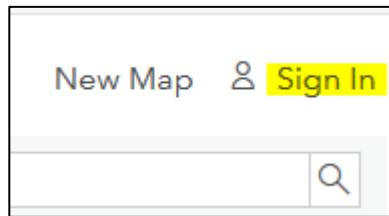
 Symbols
  Ungroup

Other layer properties can be changed/set by hovering over the layer and clicking .

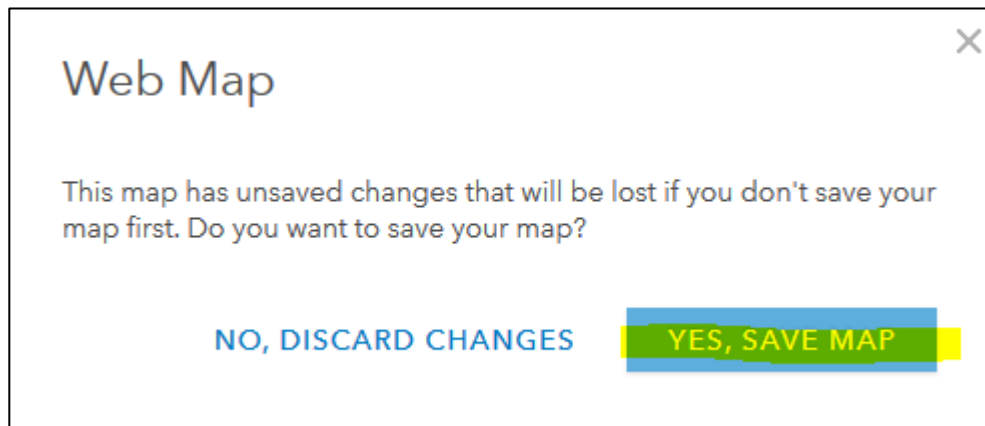


## 9. Optional: Log into arcgis.com and save web map

To save the web map, **Sign In** to arcgis.com.



A dialog appears, asking if you want to save the map. Click **YES, SAVE MAP**.



Assign map properties—Title, Summary, etc. Click **SAVE MAP**. For example:

